



VAX-11 Bliss-32 V4.0-742 Page 1 [CONV.SRCJCONVCALL.B32;1 (1)

CONV\$CALL V04-000	VAX-11 CONVERT	L 12 15-Sep-1984 23:41:04 VAX-11 Bliss-32 V4.0-742 Page 2 14-Sep-1984 12:13:47 [CONV.SRCJCONVCALL.B32:1 (2)
3123456789000000000000000000000000000000000000	0030 1 ++ 0031 1	L 12 15-5ep-1984 23:41:04
82 83 84 85 86 87	0083 1 1	KBT0436 Keith B. Thompson 16-Dec-1982 Use str\$analyze_sdesc to check descriptors KBT0397 Keith B. Thompson 3-Nov-1982 Fix the check for statistics block in reclaim

CONVSCALL V04-000	VAX-11 CONVERT	M 12 15-Sep-1984 23:41:04 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:13:47 [CONV.SRC]CONVCALL.B32;1
88 89 90	0087 1 1 0088 1 0089 1	V03-004 KBT0390 Keith B. Thompson 28-Oct-1982 Add support for prolgue 3 sidrs in reclaim
92	0090 1 0091 1 0092 1 0093 1	V03-003 KBT0371 Keith B. Thompson 19-Oct-1982 Copy the user strings to local storage and add flags parameter to user call interface
96 97	0095 1 0096 1	V03-002 KBT0345 Keith B. Thompson 4-Oct-1982 Use new definitions of the linkages
98 99 100 101 102	0098 1 0099 1 0100 1 0101 1 ****	V03-001 KBT0021 Keith Thompson 23-Mar-1982 Set defered write on output file

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```
N 12
15-Sep-1984 23:41:04
14-Sep-1984 12:13:47
CONV$CALL
                                            VAX-11 CONVERT
                                                                                                                                                                                                                                                    VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32;1
       10567890112345678901234567890123456789012345678901234567890
                                           PSECT
                                                                                                                    CONVSOUN
CONVSGLOBAL
CONVSPLIT
                                                                                                                                                           (PIC),
(PIC),
(SHARÉ,PIC),
(SHARE,PIC);
                                                                                         OWN
                                                                                         GLOBAL
                                                                                                              =
                                                                                                                    _CONV$CODE
                                                                                         CODE
                                                                  LIBRARY 'SYS$LIBRARY:LIB.L32';
LIBRARY 'SRC$:CONVERT';
                                                                  DEFINE_ERROR_CODES;
                                                                  LINKAGE
                                                                                        L$ANALYZE_SDESC_R1
CL$COPY_DESC
                                                                                                                                                           = JSB ( REGISTER = 0 ) : GLOBAL ( ADDRESS = 1 ),
= JSB ( REGISTER = 0 );
                                                                                       L ROUTINE
LIBSESTABLISH
LIBSFIND_FILE_END
LIBSSIG_TO_RET
STR$ANALYZE_SDESC_R1
CONV$$CREATE_BUFFER,
CONV$$CONVERT,
CONV$$CONVERT,
CONV$$FREE_VM
CONV$$FREE_TEMP_VM
CONV$$GET_NEXT_REY
CONV$$GET_WM
CONV$$OPEN_INPUT,
CONV$$OPEN_OUTPUT,
CONV$$PARSE_DEF,
CONV$$PARSE_DEF,
CONV$$SRMS_OPEN_ERROR
CONV$$SET_KEY_DESC
ADD$$CHECR_KEY
ADD$$LOAD_REY
ADD$$OPEN_OUTPUT,
RECL$$OPEN_FILE,
RECL$$ALLOCATE_BUFFERS
RECL$$SCAN_DATA_LEVEL
CONV$$PUT_RECORD
                                                                  EXTERNAL ROUTINE
                                                                                                                                                           : ADDRESSING_MODE ( GENERAL ),
: ADDRESSING_MODE ( GENERAL ),
: ADDRESSING_MODE ( GENERAL ),
: L$ANALYZE_SDESC_R1 ADDRESSING_MODE ( GENERAL ),
                                                                                                                                                                                                      NOVALUE,
                                                                                                                                                           : CL$FREE_VM NO
: CL$FREE_TEMP_VM
: CL$JSB_REG_9,
: CL$GET_VM,
                                                                                                                                                           : NOVALUE,
: CL$JSB_REG_9,
: AL$CHECK_KEY,
: AL$LOAD_REY,
                                                                                                                                                          : RL$JSB_REG_9,
: RL$JSB_REG_9,
: ADDRESSING_MODE (GENERAL);
                                                                                        CONVSSPUT_RECORD
                                                                  FORWARD
                                                                                        ROUTINE
                                                                                         RUNDOWN
                                                                                                                                                           : NOVALUE,
                                                                                        CONDITION_HANDLER, COPY_DESC
                                                                                                                                                           : CL$COPY_DESC;
                                                                  EXTERNAL
                                                                                        CONVSAB_FLAGS
CONVSGB_CURRENT_FILE
CONVSGL_FINDFILE_CTX
                                                                                                                                                           : BLOCK [ ,BYTE ],
: BYTE,
: LONG,
                                                                                        CONVSAL_IN_FILE_NAM
CONVSAR_OUT_FILE_NAM
CONVSAR_FDL_FILE_NAM
CONVSAB_EXC_RAB
CONVSAB_IN_XABSUM
CONVSAB_IN_XABFHC
                                                                                                                                                               VECTOR [ ,LONG ],
REF DESC_BLK,
REF DESC_BLK,
$RAB_DEC[,
$XABSUM_DECL,
$XABFHC_DECL,
```

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```
CONV$CALL
                                  VAX-11 CONVERT
                                                                                                                                                                                             VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32;1
                                                                    CONVSAB_IN_NAM
LONVSAB_IN_FAB
CONVSAB_IN_RAB
CONVSAB_OUT_XABSUM
CONVSAB_OUT_NAM
CONVSAB_OUT_FAB
CONVSAB_OUT_FAB
CONVSAB_OUT_RAB
CONVSAB_RFA_FAB
CONVSAB_RFA_RAB
                                                                                                                        : $NAM_DECL,
: $FAB_DECL,
: $RAB_DECL,
: $XABSUM_DECL,
                                 0159
016123
01663
01667
01670
01670
01670
01670
01670
01670
01777
01778
01889
01990
01990
01990
01990
01990
01990
01990
01990
     : $NAM_DECL,
: $FAB_DECL,
: $FAB_DECL,
: $FAB_DECL,
                                                                    CONV$GL_ADD_DELE_KEY
CONV$GL_STM_BUF,
CONV$GL_STM_REC_LEN,
CONV$GW_OUT_REC_SIZ
                                                                                                                        : LONG.
                                                                                                                        : SIGNED WORD;
                                                  LITERAL
                                                                    COUNTERS = 4,
OPTIONS = 19;
                                                                                                                         ! Number of counters
                                                                                                                         ! Number of options
                                                  OWN
                                                                     ! Exception fab for opens and closes
                                                                    EXC_FAB
                                                                                                       : $FAB_DECL,
                                                                     ! Call sequence counter
                                                                     SEQUENCE
                                                                                                       : BYTE INITIAL ( 0 ),
                                                                     ! The Option Flags:
                                                                                                                                                                           ! All of the options ! plus one for the size
                                                                    OPTION_BLOCK
                                                                                                      : VECTOR [ OPTIONS + 1,LONG ],
                                                                     ! The counters
                                                                     COUNT_BLOCK
                                                                                                       : VECTOR [ COUNTERS + 1,LONG ]; ! All of the counters
                                                  BIND
                                                                                                      = OPTION_BLOCK [ 0 ] : LONG,
= COUNT_BLOCK [ 0 ] : LONG;
                                                                                                                                                                           ! Option count ! Counters count
                                                                     OPTION_COUNT
                                                                    COUNT_COUNT
                                  0200
0201
0202
0203
0204
0205
0206
                                                   GLOBAL BIND
                                                                        The order of these options define the option block for the call interface. DO NOT change them.
                                                                   CONV$GL_CREATE = OPTION_BLOCK
CONV$GL_SHARE = OPTION_BLOCK
CONV$GL_FAST = OPTION_BLOCK
CONV$GL_MERGE = OPTION_BLOCK
CONV$GL_APPEND = OPTION_BLOCK
CONV$GL_SORT = OPTION_BLOCK
CONV$GL_WORK_F = OPTION_BLOCK
CONV$GL_KEY = OPTION_BLOCK
CONV$GL_KEY = OPTION_BLOCK
CONV$GL_PAD = OPTION_BLOCK
CONV$GL_PAD CHAR= OPTION_BLOCK
CONV$GL_TRUNCATE= OPTION_BLOCK
                                                                                                                                                          LONG.
                                                                                                                                                                                CREATE
                                                                                                                                                          LONG.
                                                                                                                                                                                SHARE
                                                                                                                                                          LONG.
                                                                                                                                                                                FAST
                                                                                                                                                          LONG.
                                                                                                                                                                                MERGE
                                                                                                                                                          LONG.
                                                                                                                                                                                APPEND
                                                                                                                                                          LONG,
                                                                                                                                                                                SORT
                                                                                                                                                           LONG.
                                                                                                                                                                                WORK_FILES
                                                                                                                                                           LONG.
                                                                                                                                                                               PAD_RECORDS
                                                                                                                                                           LONG.
                                                                                                                                                                               Pad character
TRUNCATE
```

CONV\$CALL V	AX-11 CONVERT	C 13 15-Sep-1984 23:41:04 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:13:47 [CONV.SRC]CONVCALL.B32;1
218 219 220 221 2221 2223 2224 2225 2226 2227 2228 2228 2230 2231 2231 2231 2231 2231 2231 2231	216 1 2217 1 2218 1 2220 1 2221 1 2222 1 2223 1 2224 1 2225 1 2226 1 2230 1 2231 1 2231 1 2232 1 2233 1 2236 1 2336 1 2337 1 GLOBAL 1 2338 1 2339 1 240 1	CONV\$GL_FIX = OPTION_BLOCK [12] : LONG,

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```
D 13
15-Sep-1984 23:41:04
14-Sep-1984 12:13:47
 CONVSCALL
VO4-000
                               VAX-11 CONVERT PASS_FILES
                                                                                                                                                                       VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32:1
                                                                                                                                                                                                                                                     (4)
                                              %SBTTL 'PASS_FILES'
GLOBAL ROUTINE CONV$PASS_FILES =
      Functional Description:
                                                             file name passing routine
                                                  Calling Sequence:
                                                        Initial Call:
                                                            CONV$PASS_FILES( in_file_desc, out_file_desc [,fdl_file_desc] [,exc_file_desc]
                                                        Additional Calls:
                                                             CONV$PASS_FILES( in_file_desc[,flags] )
                                                  Input Parameters:
                                                                                           - Address of a file descriptor used as the input file name
- Address of a file descriptor used as the output file name
- (Optional) Address of a string descriptor to be used
as the file name of the fdl file
- (Optional) Address of a string descriptor to be used
as the file name of the exceptions file
- (Optional) flags longword
                                                             in_file_desc
out_file_desc
fdl_file_desc
                                                             exc_file_desc
                                                             flags
                                                  Implicit Inputs:
                                                             none
                                                  Output Parameters:
                                                             none
                                                  Implicit Outputs:
                                                             none
                                                  Routine Value:
                                                             SS$ NORMAL or CONV$ ORDER CONV$ NARG CONV$ INP_FILES
                                                  Routines Called:
                                                             none
                                                  Side Effects:
                                                             none
                                                      BEGIN
```

```
CONV$CALL
```

```
VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32;1
BUILTIN
ACTUALCOUNT,
ACTUALPARAMETER,
NULLPARAMETER;
   Set up the condition handler to make sure files are closed and memory
   released
LIBSESTABLISH( CONDITION_HANDLER );
  See what kind of call it is
 IF .SEQUENCE EQLU 0
THEN
     BEGIN
   LOCAL
BYTES,
VM_POINTER;
     ! The first call needs at least two arguments and no more then 5
     IF ( ACTUALCOUNT() LSSU 2 ) OR ( ACTUALCOUNT() GTRU 5 )
          RETURN CONVS_NARG;
     ! Clear the flags
     CONV$AB_FLAGS = _CLEAR;
     ! If the user specified a flags parameter stuff it
     IF ACTUALCOUNT() EQLU 5
          CONV$AB_FLAGS [ CONV$W_USER ] = .ACTUALPARAMETER(5);
     ! Allocate memory for all of the name block buffers
     BYTES = 2 * ( ESA_BUF_SIZ + RSA_BUF_SIZ );
     VM_POINTER = CONV$$GET_VM ( .BYTES );
      ! Init the input RMS blocks
       The FAB
    $FAB_INIT ( FAB = CONV$AB_IN_FAB,

FAC = <BRO.GET>,

FOP = <NAM.SQO>,

NAM = CONV$AB_IN_NAM,

XAB = CONV$AB_IN_XABSUM );
       The RAB
     $RAB_INIT ( RAB = CONV$AB_IN_RAB, FAB = CONV$AB_IN_FAB,
```

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F 13
15-Sep-1984 23:41:04
14-Sep-1984 12:13:47
CONVSCALL
VO4-000
                           VAX-11 CONVERT PASS_FILES
                                                                                                                                                     VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32;1
                                                                          ROP = RAH );
    The name block
                                                     SNAM_INIT ( NAM = CONVSAB IN NAM,

ESA = .VM_POINTER,

ESS = ESA_BUF_SIZ,

RSA = .VM_POINTER + ESA_BUF_SIZ,

RSS = RSA_BUF_SIZ );
                                                         The xabs
                                                      $XABSUM_INIT ( XAB = CONV$AB_IN_XABSUM,

NXT = CONV$AB_IN_XABFHC);

$XABFHC_INIT ( XAB = CONV$AB_IN_XABFHC,
                                                                               NXT
                                                                                      = 0 ):
                                                         Get the next block of memory
                                                      VM_POINTER = .VM_POINTER + ( ESA_BUF_SIZ + RSA_BUF_SIZ );
                                                         Init the output RMS blocks
                                                         The FAB
                                                      $FAB_INIT ( FAB = CONV$AB_OUT_FAB,
FAC = <BRO,GET,PUT>,
                                                                          FOP = <DFW, NAM, OFP, SQO>,
NAM = CONV$AB_OUT_NAM,
XAB = CONV$AB_OUT_XABSUM );
                                                         The RAB
                                                                         RAB = CONVSAB_OUT_RAB,
FAB = CONVSAB_OUT_FAB,
ROP = WBH );
                                                      SRAB_INIT (
                                                         The name block
                                                                         NAM = CON'SAB OUT_NAM,

ESA = .VM_POINTER,

ESS = ESA_BUF_SIZ,

RLF = CON'SAB_IN_NAM,

RSA = .VM_POINTER + ESA_BUF_SIZ,

RSS = RSA_BUF_SIZ);
                                                      SNAM_INIT (
                                                         The xab
                                                      $XABSUM_INIT ( XAB = CONV$AB_OUT_XABSUM,
                                                                               NXT = 0 );
                                                         Clear the count of input files
                                                      CONVSGL_FILE_COUNT = 0;
                                                         The second argument is the output file name
```

```
CONVSCALL
VO4-000
                    VAX-11 CONVERT PASS_FILES
                                         IF NULLPARAMETER(2) THEN
    RETURN CONVS_ILL_VALUE
                                         ELSE
                                              CONV$AR_OUT_FILE_NAM = COPY_DESC( ACTUALPARAMETER( 2 ) );
                                           If there is a 3rd argument then it's the fdl file descriptor
                                         IF NOT NULLPARAMETER (3)
                                                Copy the descriptor
                                              CONVSAR_FDL_FILE_NAM = COPY_DESC( ACTUALPARAMETER( 3 ) );
                                           If there is a 4th argument then it's the exception file descriptor
                                         IF NOT NULLPARAMETER(4)
                                         THEN
                                              BEGIN
                                              LOCAL
                                                                       : REF DESC_BLK;
                                                   EXC_FILE_NAM
                                              EXC_FILE_NAM = COPY_DESC( ACTUALPARAMETER( 4 ) );
                                              ! Allocate memory for name block and buffers
                                              EXC_NAM_PTR = CONV$$GET_VM( NAM$K_BLN + ESA_BUF_SIZ + RSA_BUF_SIZ );
                                              ! Init the RMS blocks
                                                The FAB
                                              SFAB_INIT (
                                                            FAB = EXC FAB.
                                                                 = .EXC_FILE_NAM [
= .EXC_FILE_NAM [
= <NAM,SQO,TEF>,
                                                                                        DSCSW_LENGTH ],
DSCSA_POINTER J,
                                                             FNS
                                                            NAM = .EXC_NAM_PTR,
RFM = VAR,
RAT = CR );
                                                The RAB
                                                            RAB = CONV$AB_EXC_RAB,

FAB = EXC_FAB,

ROP = WBH );
                                              SRAB_INIT (
                                                The name block
                                                                 = .EXC_NAM_PTR,

= .EXC_NAM_PTR + NAMSK_BLN,

= ESA_BUF_SIZ,

= .EXC_NAM_PTR + NAMSK_BLN + ESA_BUF_SIZ,
                                                            NAM =
ESA =
                                              SNAM_INIT (
```

```
VAX-11 CONVERT PASS_FILES
CONVSCALL
VO4-000
                                                                                                  VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32;1
                                                     RSS = RSA_BUF_SIZ )
  END:
                                      We are a success so set up for the next call
                                    SEQUENCE = 1
                                   END
                                 If not the first call it better be the second call to pass files
                               ELSE IF .SEQUENCE EQLU 1
                                   BEGIN
                                    ! More calls to pass_files means only one or two arguments
                                   IF ACTUALCOUNT() NEQU 1
                                        IF ACTUALCOUNT() EQLU 2
THEN
                                            CONV$AB_FLAGS [ CONV$W_USER ] = .ACTUALPARAMETER(2)
                                            RETURN CONVS_NARG
                                   END
                                 If we are here we were called in the wrong order
                               ELSE
                                   RETURN CONVS_ORDER;
                                 If there are to many input files exit
                               IF .CONVSGL_FILE_COUNT GTR 9
                                   RETURN CONV$_INP_FILES;
                                 The first argument is always the input file
                               IF NULLPARAMETER(1)
                               THEN
                                   RETURN CONVS_ILL_VALUE
                                   CONVSAL_IN_FILE_NAM [ .CONVSGL_FILE_COUNT ] = COPY_DESC( ACTUALPARAMETER(T) );
                               CONV$GL_FILE_COUNT = .CONV$GL_FILE_COUNT + 1;
                               RETURN SS$_NORMAL
                               END:
```

.TITLE CONVSCALL VAX-11 CONVERT

```
15-Sep-1984 23:41:04
14-Sep-1984 12:13:47
                                                                                                                                                                                                                                     VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32;1
                                                                                                                                                                                                                                                                                                                                                                                                                                  Page 12 (4)
                                                                                                                                                              .IDENT \V04-000\
                                                                                                                                                             .PSECT
                                                                                                                                                                                                     _CONV$PLIT,NOWRT,NOEXE, SHR, PIC,2
43 58 45 2E 00000 P.AAA:
                                                                                                                                                            .ASCII \.EXC\
                                                                                                                                                              .PSECT
                                                                                                                                                                                                      _CONV$OWN,NOEXE, PIC.2
                                                                                   00000 EXC FAB: BLKB 00050 SEQUENCE:
                                                                                   00051 OPTION_BLOCK:
                                                                                                                                                                                                      80
                                                                                                                                                                 BLKB
                                                                                    000A4 COUNT_BLOCK:
                                                                                   000B8 STATISTICS BLOCK:
                                                                                                                                                              .BEKB
                                                                                                              OPTION COUNT=
COUNT TOUNT=
CONV$GL CREATE==
CONV$GL SHARE==
CONV$GL FAST==
CONV$GL MERGE==
CONV$GL APPEND==
CONV$GL SORT==
CONV$GL SORT==
CONV$GL WORK F==
CONV$GL WORK F==
CONV$GL KEY==
CONV$GL PAD==
CONV$GL PAD==
CONV$GL TRUNCATE==
CONV$GL TRUNCATE==
CONV$GL FIX==
CONV$GL FIX==
CONV$GL FIX==
CONV$GL FIX==
CONV$GL FIX==
CONV$GL FILE=
CONV$GL FILE
CONV$GL FILE=
CONV$GL FILE
CO
                                                                                                                                                                                                                           COUNT_BLOCK+8
                                                                                                                  CONVSGL_EXCEPT_COUNT==
                                                                                                                                                                                                                           COUNT_BLOCK+12
                                                                                                                  CONVSGL_VALID_COUNT ==
                                                                                                                                                                                                                           COUNT_BLOCK+16
                                                                                                                  RECL$GL_BUCKET_COUNT==
                                                                                                                RECLSGL_DATA_COUNT==STATISTICS_BLOCK+8
RECLSGL_INDEX_COUNT==
                                                                                                                                                                                                    STATISTICS_BLOCK+12
EXC_FAB
CONVERTS_FACILITY
CONVS_FAD_MAX, CONVS_BADBLK
CONVS_BADEOGIC, CONVS_BADSORT
CONVS_CONFQUAL, CONVS_CREATEDSTM
                                                                                                                  SRMS_PTR=
                                                                                                                                                            EXTRN
EXTRN
EXTRN
                                                                                                                                                              .EXTRN
```

CONV\$CALL

V04-000

VAX-11 CONVERT

PASS_FILES

```
CONV$_CREA_ERR, CONV$_DELPRI
CONV$_CREA_ERR, CONV$_DELPRI
CONV$_DUP_ CONV$_EXTN_ERR
CONV$_IDX_LIM, CONV$_ILL_KEY
CONV$_IDX_LIM, CONV$_ILL_KEY
CONV$_IDX_LIM, CONV$_ILL_KEY
CONV$_INPFILES
CONV$_INPFILES
CONV$_INSVIRMEM
CONV$_INSVIRMEM
CONV$_NOREY, CONV$_NOTIDX
CONV$_NOREY, CONV$_NOTIDX
CONV$_NOREY, CONV$_NOTIDX
CONV$_NOREY, CONV$_NOTIDX
CONV$_ORDER, CONV$_NOTIDX
CONV$_ORDER, CONV$_NOWILD
CONV$_ORDER, CONV$_PROL_WRT
CONV$_PROLRR, CONV$_PROL_WRT
CONV$_PROLRR, CONV$_PROL_WRT
CONV$_READERR, CONV$_RSK
CONV$_TEX, CONV$_SEQ
CONV$_UDF_BKS, CONV$_UDF_BLK
CONV$_TEX, CONV$_SEQ
CONV$_UF_BKS, CONV$_UDF_BLK
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    .EXTRN
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    .EXTRN
EXTRN
```

CONVSCALL VO4-000	VAX-11 CONVERT PASS_FILES	K 13 15-Sep-1984 23:41:04 VAX-11 Bliss- 14-Sep-1984 12:13:47 [CONV.SRCJCON	32 V4.0-742 Page 14 VCALL.B32;1 (4)
		.PSECT _CONVSCODE,NOWRT,	
	00000000	OFFC 00000 .ENTRY CONV\$PASS_FILES, Said R9,R10,R1T 58	R8 0308 0312
		03 1E 0002D BGEQU 3\$ 0227 31 0002F 2\$: BRW 12\$ 05 6C 91 00032 3\$: CMPB (AP), #5 F8 1A 00035 BGTRU 2\$ 0000G CF D4 00037 CLRL CONV\$AB_FLAGS	
		0000G CF 04 00037 CLRL CONV\$AB_FLAGS 05 6C 91 0003B CMPB (AP), #5	0328 0332
	00000	05 6C 91 0003B CMPB (AP), #5 06 12 0003E BNEQ 4\$ CF 14 BC B0 00040 MOVW a20(AP), CONV\$AB_FL 50 0140 8F 3C 00046 4\$: MOVZWL #320, BYTES 50 DD 0004B PUSHL BYTES 0000G 30 0004D BSBW CONV\$\$GET_VM	AGS 0334 0338 0340
0050 8	F 00	0000G 30 0004D BSBW CONV\$\$GET_VM 5E 04 C0 00050 ADDL2 #4, SP 56 50 D0 00053 MOVL R0, VM POINTER 6E 00 2C 00056 MOVC5 #0, (SP), #0, #80, 1	
0044 8	04 16 1F 24 28	5E	FRMS_PTR+36 S_PTR+40 FRMS_PTR 0356
0060 8	00000 00000 00000	0000G CF 00085 CF 4401 8F B0 00088 MOVW #17409, \$RMS_PTR CF 0200 8F 3C 0008F MOVZWL #512, \$RMS_PTR+4 CF 69 9E 00096 MOVAB CONV\$AB_IN_FAB, \$RMS 6E 00 2C 0009B MOVC5 #0, (\$P), #0, #96,	
	02 04 0A 0C	A9 6E 0000G CF 000085 CF 4401 8F B0 00088 MOVW #17409, \$RMS PTR CF 0200 8F 3C 0008F MOVZWL #512, \$RMS PTR+4 CF 69 9E 00096 MOVAB CONV\$AB IN FAB, \$RMS 6E 00 2C 0009B MOVC5 #0, (\$P\$), #0, #96, \$ 6A 6002 8F B0 000A3 MOVW #24578, \$RMS PTR+2 AA 50 8F 90 000A8 MOVB #80, \$RMS PTR+2 AA 50 A6 9E 000AD MOVB #80, \$RMS PTR+2 AA 50 A6 9E 000AD MOVB #80, \$RMS PTR+4 AA 50 BF 90 000B2 MOVB #80, \$RMS PTR+10 AA 50 BF 90 000B2 MOVB #80, \$RMS PTR+10 AA 50 BF 90 000B2 MOVB #80, \$RMS PTR+10 AA 50 BF 90 000B2 MOVB #80, \$RMS PTR+10 AA 50 BF 90 000B2 MOVB #80, \$RMS PTR+10 AA 50 BF 90 000B2 MOVB #80, \$RMS PTR+10 AA 50 BF 90 000B2 MOVB #80, \$RMS PTR+10 AA 50 BF 90 000B2 MOVB #80, \$RMS PTR+10 AA 50 BF 90 000B2 MOVB #80, \$RMS PTR+10 AA 50 BF 90 000B2 MOVB #80, \$RMS PTR+10 AA 50 BF 90 000B2 MOVB #80, \$RMS PTR+10 AA 50 BF 90 000B2 MOVB #80, \$RMS PTR+10 AA 50 BF 90 000B2 MOVB #80, \$RMS PTR+10 AA 50 BF 90 000B2 MOVB #80, \$RMS PTR+10 AA 50 BF 90 000B2 MOVB #80, \$RMS PTR+10 AA 50 BF 90 000B3 MOVB #80, \$RMS PTR+10 AA 50 BF 90	
0	C 00 00000	6E 00 2C 000BB MOVC5 #0, (SP), #0, #12, 9 0000G CF 000CO MOVW #3094, \$RMS_PTR CF 0000G CF 9E 000CA MOVAB CONV\$AB_IN_XABFHC, 9	
2	C 00	CF 0C16 8F B0 000C3 MOVW #3094, \$RMS PTR CF 0000G CF 9E 000CA MOVAB CONV\$AB IN XABFHC, 9 00 2C 000D1 MOVC5 #0, (SP), #0, #44, 9 0000G CF 000D6 MOVW #11303 \$PMS PTR	SRMS_PTR : 0371
0050 8	00000 F 00	0000G CF 000D6 CF 2C1D 8F 80 000D9 MOVW #11293, \$RMS PTR 56 00A0 C6 9E 000E0 MOVAB 160(R6), VM POINTER 6E 00 2C 000E5 MOVC5 #0, (SP), #0, #80,	SRMS_PTR 0375

CONV\$CALL V04-000		VAX-11 CONVERT PASS_FILES					12	13 -Sep-1984 23 -Sep-1984 12	41:04	VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32;1	Page 15
			04 16 1F 24 28	6B 21000060 AB 43 AB 6B 0000G AB 0000G	6B 8F 8F 02 CF	80 90 90 9E 9E 2C	000EC 000ED 000F2 000FA 000FF 00103 00109	MOVW MOVL MOVB MOVAE MOVAE MOVC	#204 #553 #67, #2,	83, \$RMS_PTR 8648224, \$RMS_PTR+4 , \$RMS_PTR+22 \$RMS_PTR+31 /\$AB_OUT_XABSUM, \$RMS_PTR+36 /\$AB_OUT_NAM, \$RMS_PTR+40 (SP), #0, #68, \$RMS_PTR	
0044	8F	00		6E 0000G	ÖÖ CF		0010F				0391
0060	8F	00	0000G 0000G	00006 CF 4401 CF 0400 CF 6E	8F 6B 00	80 9E 20	00119 00120 00127 0012C	MOVW MOVZV MOVAE MOVC		609, \$RMS_PTR 24, \$RMS_PTR+4 /\$AB_OUT_FAB, \$RMS_PTR+60 (SP), #0, #96, \$RMS_PTR	0400
			0000G 0000G	0000G CF 6002 CF 50 CF 50 CF 50	CFF 866 85 66 65 65	90 9E 90 9E 9C	00143	MOVW MOVAE MOVAE MOVAE MOVAE MOVCS	#245 #80, 80(R #80, VM P	578, \$RMS_PTR , \$RMS_PTR+2 R6), \$RMS_PTR+4 , \$RMS_PTR+10 POINTER, \$RMS_PTR+12 /\$AB_IN_NAM, \$RMS_PTR+16 (SP), #0, #12, \$RMS_PTR	
	00	00		6E 0000G	OO CF		0015E				0405
				02	110 AC	B0 91 1E 31 D5	0016D 0016F 00172	MOVW CLRL CMPB BGEQU BGEQU SS: BRW MOVL BSBW MOVL CMPB BLSSU TSTL BEQL MOVL BSBW MOVL CMPB BSBW MOVL MOVZU BSBW ADDL2 MOVL MOVCS	CONV (AP) 6\$ 16\$ 8(AP)	94, \$RMS_PTR /\$GL_FILE_COUNT), #2	0409 0413
					F8 AC 0000V	13 00 30	00175	BEQL	5\$ 8(AP		0417
			0000G	CF 03	50 60	91 15	0017E 00183 00186 00188 00188	MOVL CMPB BLSSU TSTL	RO, (AP) 7\$ 12(A	P) RO LDESC CONYSAR_OUT_FILE_NAM (, #3	0421
				50 OC	AC AC	13	0018B 0018D	BEQL	7\$ 12(A		0426
			0000G	CF 04	AC 0C AC 0000 50 6C 03 09B AC	00 30 91 1E 31	0019C	7\$: CMPB BGEQU 8\$: BRW 9\$: TSTL	RO, (AP) 9\$ 10\$	AP), RO LDESC CONVSAR_FDL_FILE_NAM , #4	0431
					ro	13	001A4 001A6	BEQL MOVL	8\$ 16(A	AP), RO	0439
				., 0	0000 50 8F 0000	DO 000000000000000000000000000000000000	UU IUU	BSBW MOVL MOVZI BSBW	COPY RO IL #256 CONV	AP), RO Z DÉSC EXC_FILE_NAM S SGET_VM SP EXC_NAM_PTR (SP), #0, #80, \$RMS_PTR	0443
0050	8F	00		5E 56 6E	50	50 50	001B5 001B8 001BB 001BE	MOVL MOVCS	RO.	EXC_NAM_PTR (SP), #0, #80, \$RMS_PTR	0456
				C8 5003 C8 11000040 C8 0202	8F 00006 04 50 000 08 8F 8F 02 8F	B0 00 90 80	00165	MOVW MOVL MOVW		83, SRMS_PTR 212736, SRMS_PTR+4 SRMS_PTR+22 , SRMS_PTR+30	

CONVSCALL VO4-000		VAX-11 CONVERT PASS_FILES						1	1 13 i-Sep-1 i-Sep-1	984 23:41: 984 12:13:	04 VAX-11 Bliss-32 V4.0-742 Pag 47 [CONV.SRC]CONVCALL.B32;1	ge 16
0044	8F	00	80 84 88 80 80	A8 A8 A8 A8	0000*	56 A7 CF 67 04	00 90 90 90 90	001E4 001E8			EXC NAM PTR, \$RMS PTR+40 4(EXC_FILE NAM), \$RMS_PTR+44 P.AAA, \$RMS_PTR+48 (EXC_FILE NAM), \$RMS_PTR+52 #4, \$RMS_PTR+53 #0, (SP), #0, #68, \$RMS_PTR	0462
0060	8F	00	0000G 0000G 0000G	CF CF CF	0000G 4401 0400 FF58	CF 8F 8F	B0 30E 20	00202 00205 0020C			#17409, \$RMS_PTR #1024, \$RMS_PTR+4 EXC_FAB, \$RMS_PTR+60 #0, (SP), #0, #96, (EXC_NAM_PTR)	0470
			02 04 0A 0C A8	66 A6 A6 A6 A6 A8	6002 50 0080 50 60	C8 006 8F C6 8F A6 01	80 90 9E 90 9E	00221 00222 00227 0022C 00232	100		#24578, (EXC_NAM_PTR) #80, 2(EXC_NAM_PTR) 176(R6), 4(EXC_NAM_PTR) #80, 10(EXC_NAM_PTR) 96(R6), 12(EXC_NAM_PTR)	
			AB	01 01		27 50 1A 6C	90 11 91 12 91	00230 00240 00242 00245 00247	10\$:	MOVB BRB CMPB BNEQ CMPB	RO, #1 13\$ (AP), #1	048
			0000G	02 CF	08	10 60 08 BC 10	13 91 12 80	0024A 0024C 0024F 00251 00257		BEQL CMPB BNEQ MOVW BRB	14\$ (AP), #2 12\$ a8(AP), CONV\$AB_FLAGS	049
					0000000G	8F	04		128:	MOVL RET	#CONV\$_NARG, RO	049
				52 09	000000006	8F 68 52 08 8F	D0 04 D0 D1 15	00269	13\$: 14\$:	MOVL RET MOVL CMPL BLEQ MOVL RET TSTB	#CONV\$_ORDER, RO CONV\$GL_FILE_COUNT, R2 R2, #9 15\$ #CONV\$_INP_FILES, RO	050
				50	000000006	8F	00	00501		MOVL RET	#CONV\$_INP_FILES, RO	050
					04	6C 05 AC 08 8F	95 13 05	00279 0027B 0027D 00280	15\$:	TSTB BEQL TSTL BNEQ MOYL	(AP) 16\$ 4(AP) 17\$	051
					0000000G		D0 04	00282 00289	16\$:	MOVL	#CONV\$_ILL_VALUE, RO	051
			0000GC	50	04 0	OOOV	30 D0	0028A 0028E	17\$:	MOVL BSBW	4(AP), RO COPY_DESC PO TONYSAL IN SILE NAMEDES	0517
			000040	50		50 68 01	06	00297 00299 00290		RET MOVL BSBW MOVL INCL MOVL RET	4(AP), RO COPY_DESC RO, CONV\$AL_IN_FILE_NAM[R2] CONV\$GL_FILE_COUNT #1, RO	0519 0521 0523

```
CONV$CALL
                  VAX-11 CONVERT PASS_OPTIONS
                                                                                                     VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.832:1
                                     CONVSAB_FLAGS [ CONVSW_USER ] = .ACTUALPARAMETER(2);
   Initialize the counter block
                                COUNT_COUNT = COUNTERS:
                                  Clear the counters (don't clear 2 (file_count) since that has been set by pass_files)
                                 INCR I FROM 2 TO COUNTERS BY 1
                                     COUNT_BLOCK [ .I ] = _CLEAR;
                                 ! Initialize the option block
                                OPTION_COUNT = OPTIONS;
                                ! First clear the entire block since most of the defaults are off
                                INCR I FROM 1 TO OPTIONS BY 1
                                    OPTION_BLOCK [ .I ] = _CLEAR;
                                  Now set the defaults
                                CONV$GL_CREATE
CONV$GL_FAST
CONV$GL_SORT
CONV$GL_WORK_F
                                                       = _SET:
= _SET:
= _SET:
= Z:
                                  If there was an argument then use it
                                 IF NOT NULLPARAMETER(1)
                                THEN
                                    BEGIN
                                                                : REF VECTOR [ ,LONG ];
                                    LOCAL
                                            USER_BLOCK
                                    USER_BLOCK = ACTUALPARAMETER( 1 );
                                     ! Check the size of the block
                                     IF .USER_BLOCK [ 0 ] GTRU OPTIONS
                                         RETURN CONVS_BADBLK:
                                     ! If the user block specified a prologue version then set a flag to
                                       use it
                                        .USER_BLOCK [ 0 ] EQLU OPTIONS
                                         CONV$AB_FLAGS [ CONV$V_PROLOG ] = _SET;
                                       Copy the option block specified by the user into ours
                                     INCR I FROM 1 TO .USER_BLOCK [ 0 ]
```

```
CONV$CALL
                    VAX-11 CONVERT PASS_OPTIONS
                                                                                                            VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32;1
                                            OPTION_BLOCK [ .I ] = .USER_BLOCK [ .I ]
   END:
                                     Check for some switch conflicts
                                     /FDL/NOCREATE
/FDL/MERGE
/FDL/APPEND
                                         or combinations of the above is wrong
                                  IF .CONV$GL_FDL AND ( ( NOT .CONV$GL_CREATE ) OR .CONV$GL_MERGE OR .CONV$GL_APPEND )
                                       RETURN CONVS_CONFQUAL;
                                   ! /MERGE/APPEND
                                   IF .CONV$GL_MERGE AND .CONV$GL_APPEND
                                       RETURN CONVS_CONFQUAL;
                                   ! Lets set the switches strait, NOTE: The order of this sets the presidence
                                                                                 of the qualifiers, do not change it
                                     The merge option is really /NOCREATE/NOFAST/NOSORT apppend is simmular
                                      .CONVSGL_MERGE OR .CONVSGL_APPEND
                                   THEN
                                       BEGIN
CONV$GL_CREATE
CONV$GL_FAST
CONV$GL_SORT
                                                         = _CLEAR;
= _CLEAR;
= _CLEAR
                                     If we create a file without definition then the files are duplicate therefore index files will be in order (one input file only)
                                  IF .CONVSGL_CREATE AND ( NOT .CONVSGL_FDL ) AND ( .CONVSGL_FILE_COUNT EQLU 1 )
                                       CONV$GL_SORT
                                                           = _CLEAR;
                                   ! If we open the input file shared we cannot sort it
                                      .CONV$GL_SHARE
                                   THEN
                                       CONV$GL_SORT
                                                           = _CLEAR;
                                     Create exc files if neceassary
                                     If the EXCEPTION Option was specified THEN Create and Connect
                                     the Exception file.
                                   IF .CONVSGL_EXC
```

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```
E 14
15-Sep-1984 23:41:04
14-Sep-1984 12:13:47
CONVSCALL
VO4-000
                          VAX-11 CONVERT PASS_OPTIONS
                                                                                                                                                 VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.832;1
                                              THEN
    756
757
758
760
761
763
764
767
768
777
778
778
778
778
778
778
                                                     BEGIN
                                                       Signal an OPENEXC error on failure
                                                     EXC_FAB [ FAB$L_CTX ] = CONV$_OPENEXC;
                                                       Create it
                                                     SCREATE ( FAB=EXC_FAB, ERR=CONV$$RMS_OPEN_ERROR );
                                                       Say that a exception file is open
                                                     CONV$AB_FLAGS [ CONV$V_EXC ] = _SET;
                                                       Connect the stream
                                                     $CONNECT ( RAB=CONV$AB_EXC_RAB,ERR=CONV$$RMS_OPEN_ERROR )
                                                    END:
                                              SEQUENCE = .SEQUENCE + 1;
                                              RETURN CONVS_SUCCESS
                                              END:
                                                                                                                          .EXTRN
                                                                                                                                      SYS$CREATE, SYS$CONNECT
                                                                                                                                      CONV$PASS OPTIONS, Save R2
CONV$GL_CREATE, R2
CONDITION_HANDLER
#1, LIB$ESTABLISH
SEQUENCE, #1
                                                                                                                                                                                                                  0525
                                                                                                                          .ENTRY
                                                                52
                                                                           0000v
                                                                                             9E 9F 913 004 1 1 004 1 004
                                                                                                                          MOVAB
PUSHAB
                                                                                                                                                                                                                  0620
                                                                                                  00007
0000B
00012
00016
00018
0001F
00020
1$:
                                                                                                                         CALLS
CMPB
BEQL
MOVL
RET
CMPB
                                             0000000G
                                                                                                                                                                                                                   0624
                                                                50 00000000G
                                                                                                                                       #CONV$_ORDER, RO
                                                                                                                                                                                                                   0626
                                                                02
                                                                                                                                       (AP), #2
                                                                                                                                                                                                                   0630
                                                                                                                          BLEQU
                                                                                                                          MOVL
RET
BNEQ
MOVU
MOVL
                                                                                                                                                                                                                  0632
                                                                50 00000000G
                                                                                                                                       "CONVS_NARG, RO
                                                                                                                                                                                                                  0636
0638
0642
0647
0649
                                                                                             28:
                                                                                                                                      3$

88(AP), CONV$AB_FLAGS

44, COUNT_COUNT
                                                                CF
A2
50
                                                                                                                          MOVL
                                                                                                                                       COUNT_BLOCK[1]
                                                                                                                         CLRL
AOBLEQ
MOVL
                                                                                                                                      #4 I 45
#19, OPTION_COUNT
                                         F8
                                                                50
A2
50
                                                                                                                                                                                                                  0653
0657
0659
                                                       FC
                                                                                                                         MOVL
CLRL
AOBLEQ
MOVL
MOVL
                                                                                                                                      OPTION BLOCK[1]
                                                                                                            58:
                                                                                                                                            I.5$
CONV$GL_CREATE
CONV$GL_FAST
CONV$GL_SORT
CONV$GL_WORK_F
                                         F8
                                                                                                                                                                                                                  0663
0664
0665
0666
                                                                                                                          MOVL
```

ONV\$CALL	VAX-11 CONVERT PASS_OPTIONS						1	-Sep-1 -Sep-1	984 23:41: 984 12:13:	04	VAX-11 Bliss-32 V4.0-742 [CONV.SRCJCONVCALL.B32;1	Page
				^,	9C	95	00062		TSTB BEQL TSTL BEQL MOVL CMPL BLEQU MOVL RET BNEQ BISB2 CLRL BRB MOVL AOBLEQ BLBC BLBC BLBC BLBC BLBC BLBC RET	(AP) 10\$ 4(AP)		: 0
			51	04	27	13 00	00069		BEQL	10\$	USED BLOCK	
			51 13	•	AC 61 08 8F	D1 1B	0006F 00072		CMPL BLEQU	03	_BLOCK7, #19	8
			50 0	0000000G		04	00074 0007B		MOVL RET		\$_BADBLK, RO	
		0000G	CF	40	06 8F 50 06 140	12 88	0007C	6\$:	BISB2	7\$ #64.	CONV\$AB_FLAGS+2	
		FC A2	40	4	06	88 04 11	00084	75:	BRB	9\$	BLOCK)[1] OBTION BLOCK[1]	
	F6	TC NE	50	40	61	F3 E9	00088 0008E 00092 00096 00099	8\$: 9\$: 10\$:	AOBLEQ	(USER	_BLOCK)[I], OPTION_BLOCK[I] _BLOCK), I, 8\$ GL_FDL, 11\$ GL_CREATE, 12\$ GL_MERGE, 12\$ GL_APPEND, 12\$ GL_MERGE, 14\$ GL_APPEND, 13\$ \$_CONFQUAL, RO	
			0B 10 0C		A2 A2 A2 A2 A2 A2	E9 E8 E9	00096 00099		BLBC BLBS	CONVS	GL_CREATE, 12\$ GL_MERGE, 12\$	
			00 08 10 08 50 0	0C 10 0C 10	SA SA	E8	DOOAT	115:	BLBS	CONVS	GL_APPEND, 12\$ GL_MERGE, 14\$	
			50 O	00000006	AZ 8F	E9 00 04	000A5 000A9	125:	MOVL	#CONV	S_CONFQUAL, RO	
			04	0C 10	A2	E8	000R1	138: 148: 158:	BLBS BLBC CLRL	CONVS	GL_MERGE, 15\$	
			•		62 A2	04	000B5 000B9 000BB 000BE	158:	CLRL	CONVS	GL_MERGE, 15\$ GL_APPEND, 16\$ GL_CREATE GL_FAST GL_SORT GL_CREATE, 17\$ GL_FDL, 17\$ GL_FDL, 17\$	
			00	08	A2 62	E9	00001	16\$:	CLRL BLBC	CONVS	GL_SORT	
			0D 09 01	40 50	A2 62 62 A2 62 A2 03 A2	E8	000C4 000C8		BLBC BLBS CMPL BNEQ CLRL	CONVS	GL_FILE_COUNT, #1	
			03	14	A2	12 04 E9	000CC 000CE 000D1	17\$:		CONVS	GL_SORT	
				14	A2	D4 E9	000D5 000D8	185:	CLRL	CONVS	GL_SORT	
		CO	A2 0	9000000	A2 A2 8F CF	DÓ 9F	000DC 000E4		CLRL BLBC MOVL PUSHAB PUSHAB	#CONV CONVS	GL_SORT GL_SORT GL_EXC, 19\$ \$ OPENEXC, EXC_FAB+24 \$RMS_OPEN_ERROR AB YS\$CREATE	
	0000	90000 90000	00 CF	A8	A2 02 04	9F FB	000E8 000EB		PUSHAB	EXC_F	AB YS\$CREATE	
		00006	CF	0000G	CF	96 9F	000F2		CALLS BISB2 PUSHAB PUSHAB	CONVS	ONVSAB FLAGS+2 SRMS_OPEN_ERROR	8
	0000	00000G	00	64 F8	CF O2	9F FB	000FF	19\$:	CALLS INCB	#2, S	ONVSAB FLAGS+2 SRMS_OPEN_ERROR AB_EXC_RAB YS\$CONNECT NCE 0	
			50	70	A2 01	FB 96 00	000FB 000FF 00106 00109 0010C	170.	MOVL	#1, R	0	

```
CONV$CALL
V04-000
                  VAX-11 CONVERT
                                                                                                     VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32;1
                           XSBTTL 'CONVERT'
GLOBAL ROUTINE CONVSCONVERT =
   Functional Description:
                              Calling Sequence:
                                    CONV$CONVERT( [counter_block][,flags] )
                              Input Parameters:
                                     counter_block - ( Optional ) Address of counter block
                                         Structure of counter block:
                                                                number of counters
                                         counter_block -->
                                                                number of files proc.
                                                                number of records
                                                                number of exception rec.
                                                                number of valid records
                                     flags
                                                       - ( Optional ) flags longword
                              Implicit Inputs:
                              Output Parameters:
                                    none
                             Implicit Outputs:
                              Routine Value:
                                    none
                              Routines called:
                              Side Effects:
                                    none
                                BEGIN
                                BUILTIN
ACTUALCOUNT,
ACTUALPARAMETER,
NULLPARAMETER;
                                LOCAL
```

```
CONV$CALL
                VAX-11 CONVERT
  STATUS:
                              Set up condition handler
                            LIBSESTABLISH ( CONDITION_HANDLER );
                              Check the order of the call
                            IF .SEQUENCE NEQ 2 THEN
                                RETURN CONVS_ORDER
                            ELSE
                                SEQUENCE = .SEQUENCE + 1;
                              Check the number of arguments
                            IF ACTUALCOUNT() GTRU 2
                                RETURN CONVS_NARG:
                              Were there user flags?
                            IF ACTUALCOUNT() EQLU 2
                                CONV$AB_FLAGS [ CONV$W_USER ] = .ACTUALPARAMETER(2);
                              Clear some variables
                            CONV$GB_CURRENT_FILE = 0;
                              If definition then parse it
                            IF .CONVSGL_FDL
                                STATUS = CONV$$PARSE_DEF()
                            ELSE
                                STATUS = CONV$_SUCCESS;
                            ! If all is well continue
                            IF .STATUS
                                  Try to Open an Input File
                                IF STATUS = CONV$$OPEN_INPUT()
                                    BEGIN
                                     ! Try to Open an Output File
                                    STATUS = CONV$$OPEN_OUTPUT();
                                     ! Loop untill error or end
                                    WHILE .STATUS
```

```
CONVSCALL
VO4-000
                 VAX-11 CONVERT
                                         BEGIN
   ! Dynamicly Allocate the Record Buffer
                                         IF NOT ( STATUS = CONV$$CREATE_BUFFER() )
                                             EXITLOOP;
                                          ! Convert The File
                                         IF NOT ( STATUS = CONV$$CONVERT() )
                                             EXITLOOP:
                                         CONV$GB_CURRENT_FILE = .CONV$GB_CURRENT_FILE + 1;
                                         IF .CONV$GB_CURRENT_FILE GEQU .CONV$GL_FILE_COUNT
                                             EXITLOOP
                                         ELSE
                                             STATUS = CONV$$OPEN_INPUT()
                                         END
                                     END:
                               Close all Open Files and deallocate memory
                             RUNDOWN():
                              If we got a counter block copy the values into it
                             IF NOT NULLPARAMETER(1)
THEN
                                 BEGIN
                                 LOCAL
                                         USER_BLOCK : REF VECTOR [ ,LONG ];
                                 USER_BLOCK = ACTUALPARAMETER(1);
                                  Check the size of the block
                                 IF .USER_BLOCK [ 0 ] GTRU COUNTERS
                                STATUS = CONVS_BADBLK
                                       Stuff the counts
                                     INCR I FROM 1 TO .USER_BLOCK [ 0 ] BY 1
                                         USER_BLOCK [ .I ] = .COUNT_BLOCK [ .I ]
                                 END:
                             SEQUENCE = 0;
```

CONVSCALL VO4-000	VAX-11 CON CONVERT	VERT		J 14 15-Sep-1984 23:41:04 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:13:47 [CONV.SRC]CONVCALL.B32:1	Page 26 (6)
; 954 ; 955 ; 956	0949 2 0950 2 0951 1	RETURN .STA	TUS		
53 A		00000006 00006 00006 00006 00006	54 00006 53 0000 50 000000006 50 000000006 50 000000006 51 08 48 52 52 52 52 52 52 52 52 52 52 52 52 52 5	O01C 00000 CF 9E 00002 CF 9E 00007 CF 9E 000010 CO 9USHAB CONDITION HANDLER COMPB CONDITION HANDLER COMPB SEQUENCE, #2 13 1 0001A BEQL 15	0779 0839 0843 0845 0845 0847 0851 0853 0857 0869 0863 0867 0869 0871 0875 0880 0886
		0000V	CF CF 04 51 04	CONV\$GL_FILE_COUNT O7 1E 00085	0912 0920 0924 0930 0934

CONVSCALL V04-000	VAX-11 CONVERT			K 14 15-Sep-1 14-Sep-1	984 23:41: 984 12:13:	04 VAX-11 Bliss-32 V4.0-742 47 [CONV.SRCJCONVCALL.B32;1	Page 27 (6)
; Routine Size:	F6: 194 bytes,	52 000 6140 50 50 80utine Base:	00000G 8F 0E 50 06 54 A340 61 63 52 _CONV\$CODE	DO 000A5 11 000AC D4 000AE 8\$: 11 000B0 D0 000B2 9\$: F3 000B8 10\$: 94 000BC 11\$: D0 000BE 04 000C1	BRB CLRL BRB MOVL AOBLEQ	CONVS_BADBLK, STATUS 11\$ 10\$ COUNT_BLOCK[I], (USER_BLOCK)[I] (USER_BLOCK), I, 9\$ SEQUENCE STATUS, RO	0936 0941 0943 0947 0949 0951

```
L 14
15-Sep-1984 23:41:04
14-Sep-1984 12:13:47
CONV$CALL
                    VAX-11 CONVERT ADD_KEY
                                                                                                             VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32;1
                              SSBTTL 'ADD KEY'
GLOBAL ROUTINE CONVSADD_KEY =
   Functional Description:
                                        CONVERT/ADD_KEY call interface routine
                                Calling Sequence:
                                        CONV$ADD_KEY( file_name_desc,fdl_file_desc,key[,stat_blk][,flags] )
                                Input Parameters:
                                                             Address of a string descriptor to be used as the input file name
                                        file_name_desc
                                                           - Address of a string descriptor to be used as the fdl file name
                                        fdl_file_desc
                                        key
                                                           - Key of reference to add
                                                           - (Optional) Address of a block of longwords which will receive the statistics
                                        stat_blk
                                        flags
                                                           - ( Optional ) Flags longword
                                Implicit Inputs:
                                        none
                                Output Parameters:
                                        stat_blk
                                Implicit Gutputs:
                                        none
                                Routine Value:
                                        none
                                Routines Called:
                                Side Effects:
                                        none
                                   BEGIN
                                   BUILTIN
                                        ACTUAL COUNT,
ACTUAL PARAMETER,
                                        NULLPARAMETER;
                                   DEFINE_KEY_DESC_GLOBAL;
```

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```
M 14
15-Sep-1984 23:41:04
14-Sep-1984 12:13:47
CONV$CALL
                     VAX-11 CONVERT
                                                                                                                VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32;1
                                 BYTES, VM POINTER, STATUS;
  Set up the exit handler
                                    LIBSESTABLISH( CONDITION_HANDLER );
                                      Check to make sure convert is not being called
                                    IF .SEQUENCE NEQU O
                                         RETURN CONVS_ORDER;
                                      This call needs at least three arguments and no more then 5
                                    IF ( ACTUALCOUNT() LSSU 3 ) OR ( ACTUALCOUNT() GTRU 5 )
                                         RETURN CONVS_NARG:
                                    ! Clear the flags
                                    CONV$AB_FLAGS = _CLEAR;
                                      If the user specified a flags parameter stuff it
                                    IF ACTUALCOUNT() EQLU 5
                                    THEN
                                         CONVSAB_FLAGS [ CONVSW_USER ] = .ACTUALPARAMETER(5);
                                      Allocate memory for all of the name block buffers
                                    BYTES = ESA_BUF_SIZ + RSA_BUF_SIZ;
                                    VM_POINTER = CONV$$GET_VM ( .BYTES );
                                      Init the output RMS blocks
                                      The FAB
                                   $FAB_INIT ( FAB = CONV$AB_OUT_FAB,

FAC = <BRO,GET,PUT>,

FOP = <DFW,NAM,OFP,$QO>,

NAM = CONV$AB_OUT_NAM,

XAB = CONV$AB_OUT_XABSUM );
                                      The RAB
                                                  RAB = CONVSAB_OUT_RAB,
FAB = CONVSAB_OUT_FAB,
ROP = <810,WBR> );
                                    SRAB_INIT (
                                      The name block
                                    $NAM_INIT ( NAM = CONV$AB_OUT_NAM,
ESA = .VM_POINTER,
```

Page (7)

```
N 14
15-Sep-1984 23:41:04
14-Sep-1984 12:13:47
CONVSCALL
VO4-000
                  VAX-11 CONVERT
                                                                                                    VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32;1
                                             ESS = ESA_BUF_SIZ,
RSA = .VM_POINTER + ESA_BUF_SIZ,
RSS = RSA_BUF_SIZ);
 The 1st argument is the output file name
                                IF NULLPARAMETER(1)
                                    RETURN CONVS_ILL_VALUE
                               ELSE
                                    CONV$AR_OUT_FILE_NAM = COPY_DESC( ACTUALPARAMETER( 1 ) );
                                 The 2nd argument is the fdl file descriptor
                                IF NULLPARAMETER(2)
                                    RETURN CONVS_ILL_VALUE
                               ELSE
                                    CONV$AR_FDL_FILE_NAM = COPY_DESC( ACTUALPARAMETER( 2 ) );
                                 The 3rd argument is the key of ref. to add
                                IF NULLPARAMETER (3)
                                    RETURN CONVS_ILL_VALUE
                               ELSE
                                    CONV$GL_ADD_DELE_KEY = .ACTUALPARAMETER( 3 );
                                 Open the output file
                               IF STATUS = ADD$$OPEN_OUTPUT()
THEN
                                      Check the input key and fdl key and make index desc for it
                                    IF STATUS = ADD$$CHECK_KEY()
THEN
                                         ! Load the key into the file
                                        STATUS = ADD$$LOAD_KEY();
                                 Close the file and deallocate memory
                               RUNDOWN():
                                 If there was a 4th parameter stuff it with the statistics block addr.
                               IF NOT NULLPARAMETER(4)
THEN
                                    BEGIN
                                    LOCAL
                                        USER_BLOCK : REF VECTOR [ ,LONG ];
                                    ! Get the user block
```

Page (7)

CONV\$CALL VO4-000	VAX-11 CONV	ERT			B 15 15-Sep-198 14-Sep-198	4 23:41	:04 VAX-11 Bliss-32 V4.0-742 :47 [CONV.SRCJCONVCALL.B32;1	Page 31 (7)
: 1129	1123 3		LOCK = ACTUALPA	RAMETER				
1131	1125 3	Check	k to see if the	ere reall	y is one			
1133	1127 3	IF .USE	ER_BLOCK NEQ 0					
1135	1129 4	BEC	SIN					
1137	1131 4	INC	CR I FROM 1 TO	.USER_BL	OCK [O] BY	1		
1139 1140	1133 4		USER_BLOCK [.1]=.	STATISTICS_BL	OCK [.	1 3	
1141	1135 4	END)					
1143 1144	1137 2 1138 2 1139 2	END;						
1145 1146 1147	1140 2 1141 1	RETURN .STA	ATUS					
; 1147	1141 1	END;						
			58 00006 57 00006 56 00006 00000 00000 50 000000006 03 05 50 000000006	CF 9F 0 01 FB 0 CF 95 0	0002 0007 000C 0011 0015 001C	.ENTRY MOVAB MOVAB MOVAB PUSHAB CALLS TSTB BEQL MOVL RET CMPB BLSSU CMPB BLEQU MOVL RET	CONV\$ADD_KEY, Save R2,R3,R4,R5,R6,R7,R8,R9 R10,R11 \$RM\$_PTR, R8 CONV\$AB_OUT_NAM, R7 \$RM\$_PTR, R6 CONDITION_HANDLER #1, LIB\$ESTABLISH SEQUENCE 1\$ #CONV\$_ORDER, R0 (AP), #3 2\$ (AP), #5 3\$ #CONV\$_NARG, R0	1016 1020 1022 1026
				8F DO 0 04 0 CF D4 0 6C 91 0	003B 003C 3\$:	RET		:
			05	6C 91 0	0040	CMPB BNEQ	CONVSAB_FLAGS (AP), #5	1032 1036
		0000G	CF 14 50 A0	BC BO 0	0045 004B 4\$:	MOVUBL	#160, BYTES	1038 1042 1044
			00	50 DD 0	004F 0051	PUSHL BSBW	CONV\$\$GET_VM	: 1044
0050 81	00		5E 5B 6E	BC BO 0 8F 9A 0 50 DD 0 000G 30 0 04 CO 0 50 DO 0	0057	CLRL CMPB BNEQ MOVW MOVZBL PUSHL BSBW ADDL2 MOVL MOVC5	a20(AP), CONV\$AB_FLAGS #160, BYTES BYTES CONV\$\$GET_VM #4. SP R0. VM_POINTER #0, (SP), #0, #80, \$RMS_PTR	1054
0000 01	00		66 5003	66 0	0061			: 1034
		04 16	66 21000060 A6 43 A6 00006	6C 91 0 6C 91 0 8F 9A 0 8F 9A 0 004 C0 0 004 C0 0 004 C0 0 006 BF B0 0 006 BF 90 0 007 CF 9E 0	0062 0067 006F 0074 0078	MOVU MOVL MOVB MOVB MOVAB	#20483, \$RMS_PTR #553648224, \$RMS_PTR+4 #67, \$RMS_PTR+22 #2, \$RMS_PTR+31 CONV\$AB_OUT_XABSUM, \$RMS_PTR+36	
		04 16 1F 24	A6 A6 0000G	02 90 0 CF 9E 0	0074 0078	MOVAB	#2, SRMS PTR+31 CONVSAB OUT_XABSUM, SRMS PTR+36	

CONVSCALL VO4-000		VAX-11 CONVERT						1	C 15 5-Sep-1984 23:4 4-Sep-1984 12:1	1:04	VAX-11 Bliss-32 V4.0-742 [CONV.SRC]CONVCALL.B32;1	Page 32
0044	8F	00	28	A6 6E		67	9E	0007E	MOVAB MOVC5	CONV	SAB_OUT_NAM, \$RMS_PTR+40 (SP), #0, #68, \$RMS_PTR	1060
0060	8F	00	04 30	68 A8 A8 6E	4401 0000	8F 66 00	80 9E 20	0008A 0008F 00095 00099	MOVW MOVZWL MOVAB MOVC5	#174 #307 CONV #0,	09, \$RMS_PTR 2, \$RMS_PTR+4 \$AB_OUT_FAB, \$RMS_PTR+60 (SP), #0, #96, \$RMS_PTR	1068
			02 04 0A 0C	67 A7 A7 A7	6002 50 50 50	008 886007 888 85631	90 9E 90	000A1 000A6 000AB	MOVW MOVB MOVB MOVB MOVL TSTB BEQL TSTL BEQL MOVL BSBW MOVL CMPB BLSSU TSTL BEQL MOVL CMPB BLSSU TSTL BSBW MOVL CMPB BLSSU TSTL BNEQ	#245 #80, 80(R #80,	78, \$RMS_PTR \$RMS_PTR+2 11), \$RMS_PTR+4 \$RMS_PTR∓10 DINTER, \$RMS_PTR+12	
					04	6C 31 AC 2C	95 13 05	000B5 000B9 000BB 000BD	TSTB BEQL TSTL	(AP) 5\$ 4(AP) 5\$		1072
				50	04	ODOOV	DO 30	\$2000	MOVL	4 (AP	DESC CONVSAR_OUT_FILE_NAM . #2	1076
			0000G	CF 02	08	50 6C 1B AC 16	00 91 1F 05	000C9 000CE 000D1 000D3	MOVL CMPB BLSSU TSTL	RO, (AP) 5\$ 8(AP	CONVSAR_OUT_FILE_NAM , #2)	1080
				50	08	0000V	D0	80000 00000	MOVL BSBW	8(AP) RO DESC	1084
			0000G	CF 03	ОС	50 6C 05 AC 08 8F	00 91 1F 05 12	000DF 000E4 000E7 000E9	MOVL CMPB BLSSU TSTL	12(A), RO _DESC CONV\$AR_FDL_FILE_NAM , #3	1088
				50	00000000	08 8F	D0	000EC 000EE	58: BNEQ MOVL RET	#CON	V\$_ILL_VALUE, RO	1090
			0000G	CF CF 52 OF	oc	BC 00 50 52	DO FB	000EE 000F5 000F6 000FC 00101	6\$: MOVL CALLS MOVL BLBC	#0, R0, STATE	AP), CONV\$GL_ADD_DELE_KEY ADD\$\$OPEN_OUTPUT STATUS US, 7\$ \$CHECK_KEY STATUS US, 7\$ \$CHECK_KEY	1092 1096
				52		0000G	30	00107 0010A	BSBW MOVL	ADD\$	STATUS TATUS	1101
						0000	50 00	00110	BSBM BCRC	ADD\$	BLOAD KEY STATUS	1106
			0000V	52 CF 04	10	50 0000G 50 6C 1A AC 15 AC 0F 50	30 D0 F8 15 15	0011E 00120	6\$: CALLS MOVL BLBC BSBW MOVL BLBC BSBW MOVL CALLS CMPB BLSSU TSTL BEQL MOVL BEQL MOVL BEQL MOVL BERB MOVL BRB MOVL RET	(AP) 10\$ 16(AI	SLÓAD_KEY STATUS RUNDOWN , #4	1112
				51	10	AC OF 50	13 00 13 04 11	00123 00125 00129 0012B 0012D	BEQL MOVL BEQL CLRL	103	P), USER_BLOCK	1123 1127 1131
		F5	6	140 50 50	0000	CF40	11 D0 F3	0012D 0012F	8\$: MOVL 9\$: AOBLEQ 10\$: MOVL	STAT	ISTICS_BLOCK[1], (USER_BLOCK)[1] R_BLOCK), I, 8\$ US, RO	1133
				50		52	00	0012F 00136 0013A 0013D	108: MOVL	STATI	US, RO	1139

CONV\$CALL VO4-000 VAX-11 CONVERT

D 15 15-Sep-1984 23:41:04 14-Sep-1984 12:13:47

VAX-11 Bliss-32 V4.0-742 [CONV.SRCJCONVCALL.B32;1

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```
CONV$CALL
                   VAX-11 CONVERT
                                                                             15-Sep-1984 23:41:04
14-Sep-1984 12:13:47
                                                                                                          VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32;1
                                 DEFINE_BUCKET_GLOBAL;
DEFINE_KEY_DESC_GLOBAL;
 LOCAL STATUS;
                                    Set up the exit handler
                                 LIBSESTABLISH ( CONDITION_HANDLER );
                                   Check to make sure convert is not being called
                                 IF .SEQUENCE NEQU O
                                      RETURN CONVS_ORDER;
                                    Check on the number of arguments
                                  IF ( ACTUALCOUNT() LSSU 1 ) OR ( ACTUALCOUNT() GTRU 3 )
                                  THEN
                                      RETURN CONVS_NARG;
                                   Clear the flags and counters
                                 CONV$AB_FLAGS = _CLEAR;
RECL$GL_BUCKET_COUNT = _CLEAR;
RECL$GL_DATA_COUNT = _CLEAR;
RECL$GL_INDEX_COUNT = _CLEAR;
                                   Was user flags specified
                                  IF ACTUALCOUNT() EQLU 3
                                      CONVSAB_FLAGS [ CONVSW_USER ] = .ACTUALPARAMETER(3);
                                   Open the file
                                  IF NULLPARAMETER(1)
                                      RETURN CONV$_ILL_VALUE
                                      RET_ON_ERROR( RECL$$OPEN_FILE( ACTUALPARAMETER(1) ) );
                                   Get the first key
                                 if ( STATUS = CONV$$SET_KEY_DESC( 0 ) )
THEN
                                        Process the keys
                                           BEGIN
                                             If the index is not initialized don't try to do anything
                                             with it
                                           IF NOT .KEY_DESC [ KEY$V_INITIDX ]
```

```
G 15
15-Sep-1984 23:41:04
14-Sep-1984 12:13:47
                 VAX-11 CONVERT
CONVSCALL
VO4-000
                                                                                              VAX-11 Bliss-32 V4.0-742 [CONV.SRC]CONVCALL.B32:1
                                       THEN
                                           BEGIN
                                           ! Allocate bucket buffers and the context block
                                           if NOT ( STATUS = RECL$$ALLOCATE_BUFFERS() )
                                               EXITLOOP:
                                           ! Scan the data level buckets and remove the empties
                                           IF NOT ( STATUS = RECL$$SCAN_DATA_LEVEL() }
                                               EXITLOOP:
                                           ! Deallocate memory used foe the bucket buffers
                                           CONV$$FREE_TEMP_VM()
                                  UNTIL NOT CONV$$GET_NEXT_KEY();
                               Close the file and deallocate memory
                              RUNDOWN():
                              ! If there was a second parameter stuff it with the statistics block addr.
                              IF NOT NULLPARAMETER(2)
                                  BEGIN
                                  LOCAL
                                      USER_BLOCK : REF VECTOR [ ,LONG ];
                                    Get the user block
                                  USER_BLOCK = ACTUALPARAMETER(2);
                                  ! Check to see if there really is one
                                  IF .USER_BLOCK NEQ O
                                       BEGIN
                                       ! Stuff the total bucket count
                                       STATISTICS_BLOCK [ 4 ] = .RECL$GL_DATA_COUNT + .RECL$GL_INDEX_COUNT;
                                      INCR I FROM 1 TO .USER_BLOCK [ 0 ] BY 1
                                           USER_BLOCK [ .1 ] = .STATISTICS_BLOCK [ .1 ]
                                       END
                                  END:
```

CONVSCALL V04-000	VAX-11 CO	NVERT	
: 1320 : 1321 : 1322 : 1323	1313 2 1314 2 1315 2 1316 1	RETURN	.STATUS
: 1323	1316 1	END;	

H 15 15-Sep-1984 23:41:04 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:13:47 [CONV.SRC]CONVCALL.B32:1

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			0	FFC	00000		.ENTRY	CONVSRECLAIM, Save R2,R3,R4,R5,R6,R7,R8,R9,-; R10,R11	1143
00000006	53 00	00000	01	9E 9F FB	00002 00007 0000B		MOVAB PUSHAB CALLS TSTB	RECLSGL INDEX COUNT, R3 CONDITION HANDLER #1, LIBSESTABLISH SEQUENCE 15	1207
	50	000000000	A3 08 8F	95 13 00	0000B 00012 00015 00017 0001E		TSTB BEQL MOVL	SEQUENCE 1\$ #CONV\$_ORDER, RO	1211
	03		6C 05 6C 08 8F	95 13 91	0001F 00021 00023	1\$:	BEQL MOVL RET TSTB BEQL CMPB BLEQU	(AP) 2\$ (AP), #3	1217
	50	00000000	08 8F	1B 00	00026 00028 0002F	2\$:	MUVL	#CONVS_NARG, RO	1219
	03	00000 F8	63 63	99F910091910007091891	00030	3\$:	RET CLRL CLRQ CLRL CMPR	CONV\$AB_FLAGS RECL\$GL_BUCKET_COUNT RECL\$GL_INDEX_COUNT (AP), #3	1223 1224 1226 1230
0000G	CF	ОС	643 643 640 640 640 640 640 640 640 640 640 640	12 80 95 13	00034 00037 00039 0003C 00044 00046	48:	CLRL CMPB BNEQ MOVW TSTB BEQL TSTL BNEQ MOVL	a12(AP), CONV\$AB_FLAGS (AP) 5\$	1232
	50	000000000		D5 12 D0 04	00048 0004B 0004D	5\$:	TSTL BNEQ MOVL RET	4(AP) 6\$ #CONV\$_ILL_VALUE, RO	1238
00006	CF 5A	04	AC 01 50 7E 0000G	DD FB E9	00054 00055 00058 0005D 00060	6\$:	RET PUSHL CALLS BLBC CLRL BSBW ADDL2	4(AP) #1, RECL\$SOPEN_FILE STATUS, 13\$ -(SP)	1240
15 10	5E 52 20 AB		00006 50 52 04 00006	0400090000 0000000000000000000000000000	00062 00065 00068 0006B 0006E	70.	BSBW ADDL2 MOVL BLBC	CONVSSSET_KEY_DESC	
15 10	52 12		0000G		00075 00076 00079 0007C	7\$:	MOVL BLBC BBS BSBW MOVL BLBC	RO, STATUS STATUS, 9\$ #4, 16(KEY_DESC), 8\$ RECL\$\$ALLOCATE_BUFFERS RO, STATUS STATUS, 9\$	1255
	52 09		00006 50 52 00006 00006 50 60 1F	E900990308891	0007C 0007F 00082 00085 0008B 0008B 0008E 00096		BLBC BSBW MOVL BLBC BSBW BSBW BLBS CALLS CMPB BLSSU	STATUS, 9\$ RECL\$\$SCAN_DATA_LEVEL RO, STATUS STATUS, 9\$ CONV\$\$FREE_TEMP_VM CONV\$\$GET_NEXT_REY RO, 7\$ #0, RUNDOWN (AP), #2 12\$	1267
00004	EO		0000G	30 E8	00088 0008B	8\$:	BLBS	CONV\$\$GET_REXT_REY RO. 7\$	1273
0000V	CF O2		6C 1F	91 1F	00093	9\$:	CMPB	(AP), #2	1281 1285

CONV\$CALL V04-000	VAX-11 CONVERT		1 15 15-Sep-1984 23:41:04 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:13:47 [CONV.SRCJCONVCALL.B32:1	Page 38 (8)
	04 A3	51 FC A3 6140 50 50	08 AC D5 00098 1A 13 0009B 08 AC D0 0009D MOVL BYAP), USER_BLOCK 14 13 000A1 63 C1 000A3 ADDL3 RECL\$GL_INDEX_COUNT, RECL\$GL_DATA_COUNT, STATISTICS_BLOCK+16 CLRL BRB 11\$ F4 A340 D0 000AD 10\$: MOVL STATISTICS_BLOCK[I], (USER_BLOCK)[I] 61 F3 000B3 11\$: AOBLEQ (USER_BLOCK), I, 10\$ 52 D0 000B7 12\$: MOVL STATUS, RO	- 1294 - 1298 - 1304 - 1306 - 1314 - 1316
; Routine Siz	e: 187 bytes,	Routine Base:	_CONV\$CODE + 05AA	

```
CONVSCALL
VO4-000
                        VAX-11 CONVERT
                                                                                                                                        VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32;1
                                                                                                                                                                                                Page
                         RUNDOWN
  .CONV$AB_FLAGS [ CONV$V_OUT ]
                                           THEN
                                                 BEGIN
                                                    If we're doing a FTN --> STM conversion, then we
                                                             need to flush our STM buffer now.
                                                      .CONVSAB_FLAGS [ CONVSV_MAPFTN ] EQL CONVSC_FTNSTM
                                                 THEN
                                                       BEGIN
                                                       CONVSGW_OUT_REC_SIZ = .CONVSGL_STM_REC_LEN;
CONVSAB_OUT_RAB_[RAB$L_RBF] = .CONVSGL_STM_BUF;
CONVSSPUT_RECORD ();
                                                       END:
                                                 SDISCONNECT( RAB=CONVSAB_OUT_RAB ):
                                                 $CLOSE( FAB=CONV$AB_OUT_FAB );
                                              If an Exception file was used close it
                                               .CONV$AB_FLAGS [ CONV$V_EXC ]
                                           THEN
                                                 $DISCONNECT( RAB=CONV$AB_EXC_RAB );
                                                 $CLOSE( FAB=EXC_FAB )
                                                 END:
  1410
1411
1412
1413
1414
1415
                                             Deallocate any loose memory floating around
                                           CONV$$FREE_TEMP_VM();
                                           CONV$$FREE_VM();
                                           RETURN
  1416
                                           END:
                                                                                                                              SYS$DISCONNECT, SYS$CLOSE
                                                                                                                  .EXTRN
                                                                                                                              Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11
CONV$AB_FLAGS+2, R4
SYS$CLOSE, R3
SYS$DISCONNECT, R2
                                                                                    OFFC 00000 RUNDOWN:.WORD
                                                                                                                                                                                                     1318
                                                                                            00002
00007
0000E
                                                                                       9E 9E 9F FB 1 E 1 E 1 2
                                                                                                                  MOVAB
                                                                000000006
000000006
00000
                                                                                                                  MOVAB
                                                                                 00
CF
CF
01
00
                                                                                                                  MOVAB
                                                                                                                               SEQUENCE
                                                                                                                                                                                                     1361
1365
                                                                                                                  CLRB
                                                                                            00015
00019
00010
00029
00020
00032
00034
00038
                                                                                                                              CONVSGL FINDFILE CTX
#1, LIBSFIND FILE END
#0, CONVSSEND OF FILE
#1, CONVSAB FLAGS+2, 28
#7, #2, CONVSAB_FLAGS+2, #2
                                                                                                                  PUSHAB
                                           90000000
90000
                                                            00
CF
64
02
                                                                                                                  CALLS
                                                                                                                  CALLS
                                                                                                                  BBC
                02
                                                                                                                  CMPZV
                                                                                                                  BNEQ
                                                                                       BC
DO
FB
9F
                                                                                                                                                                                                     1385
1386
1387
1389
                                           00006
00000000
00000000
                                                                       0000G
                                                                                                                              CONVSGL_STM_REC_LEN, CONVSGW_OUT_REC_SIZ
CONVSGL_STM_BUF, CONVSAB_OUT_RAB + 40
#0, CONVSSPOT_RECORD
                                                            CF
CF
00
                                                                                                                  MOVW
                                                                                                                  MOVL
                                                                                                                  CALLS
                                                                       0000G
                                                                                                                  PUSHAB
                                                                                                                              CONVSAB_OUT_RAB
                                                                                                                              #1, SYSSDISCONNECT
                                                                                                                  CALLS
```

CONVSCALL VO4-000	VAX-11 CONVERT		15-Sep-1984 23:41:04 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:13:47 [CONV.SRC]CONVCALL.B32;1	Page 41
	OE .	63 64 62 63	0000G CF 9F 00050 01 FB 00054 02 E1 00057 28: BBC #2, CONV\$AB_FLAGS+2, 3\$ 0000G CF 9F 0005B 01 FB 0005F 0000	1396 1396 1396 1396 1406 1406
; Routine Si	ze: 112 bytes,	Routine Base:	_CONV\$CODE + 0665	

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CONVSCALL VO4-000	VAX-11 CONV	ERT ANDLER			N 15 15-Sep- 14-Sep-	1984 23:41: 1984 12:13:	04 VAX-11 Bliss-32 V4.0-742 47 [CONV.SRC]CONVCALL.B32;1	Page 43 (10)
: 1476 : 1477 : 1478 : 1479 : 1480 : 1481 : 1482 : 1483 : 1484 : 1485 : 1486 : 1487 : 1493 : 1494 : 1495 : 1496 : 1497 : 1498 : 1499	1467 1468 1469 1470 1471 1472 1473 1475 1475 1477 1477 1477 1477 1480 1481 1482 1483 1484 1485 1486 1487 1489 1490	ELSE F. CONDIT THEN RETURN ELSE	AGS [CONVION_CODE [N(); ION_CODE [ON_CODE [STSSV_ STSSV_ NUE .SIGNA	SEVERITY] E SEVERITY] E SEVERITY] E	AL STS\$K_SU	VERE	
				0000	00000 CONDI	TION HANDLE	٥.	
04	52	00000920 53 52 8F 0E 03	04 04 0000G	AC DO A3 DO 52 D1 OC 13 CF E9 00 ED 25 12	00000 CONDI 00002 00006 0000A 00011 00013 00018 0001D	CMPL REOL	Save R2,R3 SIGNAL_VECTOR, R3 4(R3), CONDITION_CODE CONDITION_CODE, #2336 1\$ CONV\$AB_FLAGS, 2\$ #0, #3, CONDITION_CODE, #4 5\$ #0, RUNDOWN 5\$	1411 1458 1462 1471 1474
		FF6C CF		00 FB	0001F 1\$:	BKB	NO. RUNDOWN	1476 1471 1479
01				00 ED	00026 2\$:	CMD7V	#0, #3, CONDITION_CODE, #1	
03	52	03 50		00 ED 04 12 01 DO	0002D 00032 00034 3\$:	BNEQ MOVL	#O, #3, CONDITION_CODE, #3 4\$ #1, RO	1480 1482
		000000006 00	08 0918	AC DD 53 DD 02 FB 8F 3C	00038 4\$: 0003B 0003D 00044 5\$:	PUSHL PUSHL CALLS MOVZWL RET	MECH_VECTOR R3 #2, LIB\$SIG_TO_RET #2328, R0	1484 1488 1490
; Routine Siz	e: 74 bytes,	000000006 00 50 Routine Base	0918	8F 3C	00044 5\$:	PUSHL	RS	

1491 1

; 1500

```
B 16
15-Sep-1984 23:41:04
14-Sep-1984 12:13:47
CONV$CALL
                   VAX-11 CONVERT COPY_DESC
                                                                                                          VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32;1
                             *SBTTL 'COPY_DESC'
ROUTINE COPY_DESC ( DESC ) : CL$COPY_DESC =
  BEGIN
                                 LOCAL
                                                         : LONG,
: LONG,
: REF VECTOR [ ,BYTE ],
: REF BLOCK [ ,BYTE ];
                                      BYTES
                                      BUFFER
                                      COPY_DESC
                                 GLOBAL REGISTER
ADDRESS = 1
                                                          : LONG:
                                 LENGTH = STR$ANALYZE_SDESC_R1( .DESC );
                                  ! Allocate a vm for a descriptor and a copy of the users string
                                 BYTES = .LENGTH + 8:
                                  ! Get the address of the descriptor
                                 COPY_DESC = CONV$$GET_VM( .BYTES );
                                  ! The string is just past that
                                 BUFFER = .COPY_DESC + 8;
                                 ! Stuff length
                                 COPY_DESC [ DSC$W_LENGTH ] = .LENGTH;
                                  ! Stuff address
                                 COPY_DESC [ DSC$A_POINTER ] = .BUFFER;
                                  ! Copy the user string
                                 CH$MOVE( .LENGTH, .ADDRESS, .BUFFER );
                                 ! Return address of descriptor
                                 RETURN . COPY_DESC
                                 END:
```

: 1493 : 1506 : 1510 : 1514

CONVSCALL V04-000	VAX-11 CONVERT			15-Se 14-Se	p-1984 23:41 p-1984 12:13	:04 VAX-11 Bliss:	-32 V4.0-742 NVCALL.B32;1
	60 04	5E 56 50 66 A6 61 50	08 A6 52 50 52 50 52 56	CO 00016 DO 00019 9E 00010 BO 00020 DO 00023 28 00027 DO 0002B BA 0002E 05 00032	ADDL2 MOVL MOVAB MOVW MOVL MOVC3 MOVL POPR RSB	#4, SP R0, COPY DESC 8(R6), BUFFER LENGTH, (COPY DESC BUFFER, 4(COPY DESC LENGTH, (ADDRESS), COPY DESC, R0 #^M <r2,r3,r4,r5,r6< th=""><th>(BUFFER)</th></r2,r3,r4,r5,r6<>	(BUFFER)
; Routine Size:	51 bytes, Routine	Base: _(ONV\$CODE	+ 071F			
: 1547 : 1548	1537 1 1538 0 END ELUDO	n .					
; Name	Byte	PSECT SU	JMMARY	Attril	aut ac		
_CONV\$OWN _CONV\$PLIT _CONV\$CODE		204 NOVE	C. WRT. C.NOWRT, C.NOWRT,	RD , NOEXE , NO RD , NOEXE , RD , EXE ,	SHR, LCL, I	REL, CON, PIC, ALI REL, CON, PIC, ALI REL, CON, PIC, ALI	GN(2) GN(2) GN(2)
•	Libra	ry Statist	ics				
File			tal Lo	mbols	1 0903	Processing Time	
\$255\$DUA28: \$255\$DUA28:	[SYSLIB]LIB.L32;1 [CONV.SRC]CONVERT.L32;	1 18	3619 165	114 25	0 1000 15 17	00:01.9 00:00.2	

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:CONVCALL/OBJ=OBJ\$:CONVCALL MSRC\$:CONVCALL/UPDATE=(ENH\$:CONVCALL)

; Size: 1874 code + 208 data bytes ; Run Time: 00:45.7 ; Elapsed Time: 02:14.3 ; Lines/CPU Min: 2020 ; Lexemes/CPU-Min: 31811 ; Memory Used: 297 pages ; Compilation Complete 0064 AH-BT13A-SE

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